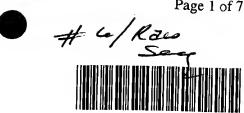
CRE Processing Date: Changed a file from non-ASCII to ASCII ENTERED Verified by: Changed the margins in cases where the sequence text was 'wrapped' down to the next line Edited by: Changed the margins in cases where the sequence text was 'wrapped' down to the next line Edited a format error in the Current Application Data section, specifically: Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted applicant was the prior application data; or other Added the mandatory heading and subheadings for 'Current Application Data'. Edited the 'Number of Sequences' field. The applicant spelled out a number instead of using an in Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were linearted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted: In non-ASCII 'garbage' at the beginning/end of files: secretary initials/filename at engage numbers throughout text. The other insertite texts and files.	by the
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Deleted extra, invalid, headings used by an applicant, specifically: Deleted: Deleted	the
Deleted: O non-ASCII *garbage* at the heginning/end of files:	
Deleted: non-ASCII "garbage" at the hegipping/and of files:	
page numbers throughout text; other invalid text, such as	nd of file
Inserted mandatory headings, specifically:	
Corrected an obvious error in the response, specifically:	
Edited identifiers where upper case is used but lower case is required, or vice versa.	
Corrected an error in the Number of Sequences field, specifically:	
A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted	
Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (due to a Patentin bug). Sequences corrected:	
Other:	(error
	(error

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

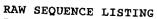


PCT10

RAW SEQUENCE LISTING DATE: 02/14/2002 PATENT APPLICATION: US/10/031,044 TIME: 09:03:29

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              Lex M. Cowsert
              ISIS PHARMACEUTICALS, INC.
      7 <120> TITLE OF INVENTION: ANTISENSE MODULATION OF SHP-2 EXPRESSION
      9 <130> FILE REFERENCE: RTSP-0252
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C-- 11 <141> CURRENT FILING DATE: 2002-01-14
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   12 <151> PRIOR FILING DATE: 1999-07-21
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   28 agegggeete eetegggeea geeegatgtg acegageeea geggageetg ageaaggage
                                                                            120
  30 gggtccgtcg cggagccgga gggcgggagg aac atg aca tcg cgg aga tgg
                                                                            171
  31
                                             Met Thr Ser Arg Arg Trp
    [32
    '34 ttt cac cca aat atc act ggt gtg gag gca gaa aac cta ctg ttg aca
                                                                            219
    35 Phe His Pro Asn Ile Thr Gly Val Glu Ala Glu Asn Leu Leu Thr
                    10
                                         15
    38 aga gga gtt gat ggc agt ttt ttg gca agg cct agt aaa agt aac cct
                                                                            267
    39 Arg Gly Val Asp Gly Ser Phe Leu Ala Arg Pro Ser Lys Ser Asn Pro
                25
                                    30
    42 gga gac ttc aca ctt tcc gtt aga aga aat gga gct gtc acc cac atc
    43 Gly Asp Phe Thr Leu Ser Val Arg Arg Asn Gly Ala Val Thr His Ile
           40
                                45
    46 aag att cag aac act ggt gat tac tat gac ctg tat gga ggg gag aaa
                                                                            363
    47 Lys Ile Gln Asn Thr Gly Asp Tyr Tyr Asp Leu Tyr Gly Gly Glu Lys
                            60
                                                65
   50 ttt gcc act ttg gct gag ttg gtc cag tat tac atg gaa cat cac ggg
                                                                            411
   51 Phe Ala Thr Leu Ala Glu Leu Val Gln Tyr Tyr Met Glu His His Gly
                       75
   54 caa tta aaa gag aag aat gga gat gtc att gag ctt aaa tat cct ctg
                                                                            459
   55 Gln Leu Lys Glu Lys Asn Gly Asp Val Ile Glu Leu Lys Tyr Pro Leu
   56
                   90
                                        95
   58 aac tgt gca gat cct acc tct gaa agg tgg ttt cat gga cat ctc tct
                                                                            507
   59 Asn Cys Ala Asp Pro Thr Ser Glu Arg Trp Phe His Gly His Leu Ser
```



PATENT APPLICATION: US/10/031,044

DATE: 02/14/2002 TIME: 09:03:29

Input Set : A:\PTO.AMC.txt

6			10!					110	1								
6	2 ggg	g aa	a gaa	a qca	a gad	a aaa	a tta	++:		- ~			115			agt	
6:	3 G13	/ Ly	s Glu	ı Ālā	ı Gli	1 Lvs	Lei	1 T.O.	aci	- yaa	l ddd	ı gga	aaa	cat	ggt	agt Ser	555
66	ttt	cti	t gta	Cqa	qac	r a oro	Cac	. 200		00+	~	130				tct	
67	Phe	e Lei	ı Val	. Arc	r G1:	Ser	Clr	Cor	· uio	D	. yga	gat	ttt	gtt	ctt	tct Ser	603
68	135	5		_	,	140) OII.	561	птэ	Pro	GIY	Asp	Phe	Va ₁	Leu	Ser	
70	gtg	Cqc	act Thr	aat	gat	gac		~~~	. ~		145	•				150	
71	Va1	Arc	Thr	Glv	Asp	Asn	Luc	999 615	gay	ayc	aat	gac	ggc	aag	tct	aaa	651
74	gtg	acc	cat His	att	at.o	att	Cac	+~+	026	160					165		
75	Va1	Thr	His	Va1	Met	Tle	Ara	Cve	Cln	yaa	Ctg	aaa	tac	gac	gtt	ggt	699
76				170			9	Cys	175	GIU	Leu	гĀЗ	Tyr		Va1	G1y	
78	gga	gga	gaa Glu	caa	ttt	σat	tet	t+~	2.02	~~+	-4.4			180			
, 79	G1y	Gly	G1u 185	Ara	Phe	Asn	Ser	LLy	mb _m	yat	CLL	gtg	gaa	cat	tat	aag	747
<u> </u> 80	_	•	185	5		p	DEI	190	T 11T	ASP	Leu	Val		His	Tyr	Lys	
🗒 82	aag	aat	cct Pro	ato	αtα	αaa	aca	++~	~~+				195				
📮 83	Lys	Asn	Pro	Met	Val	Glu	Thr	LLLY	21	aca mb-	gta	cta	caa	ctc	aag	cag	795
1384		200					205	ьец	GIĀ	TUL	vaı	Leu	Gln	Leu	Lys	Gln	
<u> </u> 86 ~ 87	ccc	ctt	aac	acσ	act	cat	ata	a a +	a a t	~~+		210					
																	843
88=	215					220	110	HSII	АТа	Ата	GIU	TTE	Glu	Ser	Arg	Val	
= 90	cga	gaa	cta	aσc	aaa	tta	act	~~~	2.00		225					230	
88 90 91 92	Arg	Ğlu	Leu	Ser	Lvs	Leu	yct Δ1a	Glu	acc mh∞	aca mb-	gat	aaa	gtc	aaa	caa	ggc	891
[#] 92					225		u	Oru	T 11T	T 11T	ASP	гàг	vaı	Lys	G1n	G1y	
교94 기95	ttt	tqq	σaa	σaa	ttt	σασ	a.c.a	0+ n	000	240			_		245		
	Phe	Trp	Ğlu	G1u	Phe	Glu	Thr	Len	Cln	Caa	cag	gag	tgc	aaa	ctt	ctc	939
 496		_		250		O_Lu	1111	пеа	255	GIN	GIN	GIU	Cys	Lys	Leu	Leu	
98ليزا 99س	tac	agc	cqa	aaa	σασ	aat	саа	aaa		~				260			
		Ser	Arg 265	Lys	G1u	Glv	Gln	ugg ∆ra	Cla	yaa .	aac	aaa	aac a	aaa	aat	ag a	987
100			265	1		1	0111	270	GIII	GIU A	ASD	rys .		Lys	Asn	Arg	
102	tat	aaa	aac	atc	cta	ccc	+++	gat	Cat	200	2		275				
103	Tyr	Lys	Asn	Ile	Leu	Pro	Phe	Acn	uic	mb x	agg	gtt	gtc	cta	cac	gat	1035
106	ggt	gat	ccc Pro	aat	qaq	cct	att	tca	at	tao	2+0	290					
107	Gly	Asp	Pro	Asn	Glu	Pro	Val	Ser	Agn	mar.	T1a	aat	gca	aat	atc	atc	1083
110	atg	cct	gaa Glu	ttt	qaa	acc	ааσ	tac	220	a a +						310	
111	Met	Pro	Ğlu	Phe	Ğlu	Thr	Lvs	Cvs	Aen	Acn	Com	aag	CCC	aaa -	aag	agt	1131
114	tac	att	gcc Ala	aca	caa	aac	tac	ctσ	Caa		200	~+~			325		
115	Tyr	Ile	A1a	Thr	Gln	Glv	Cvs	Len	Gln	Acn	Thr	y cy	aat	gac	ttt	tgg	1179
118	cgg	atg	gtg Val	ttc	caa	gaa	aac	tee	000	αtα.	a++	ata.	a + -	340			
119	Arg	Met	Va1	Phe	G1n	G1u	Asn	Ser	Ara	va 1	T1a	y LC Va 1	a Lg	aCa mb	acg	aaa	1227
122	gaa	gtg	gag Glu	aga	gga	aaq	agt	222	tat	atc	222	4.	355		4.		
123	Glu	Va1	Glu	Arg	Gly	Lys	Ser	Lvs	Cvs	va1	uua Lue	uaU Tuv~	ugg Tro	Du-	gat	gag	1275
124		360		-	-	-	365	-1 -	-,0		-ys	370	ттр	LT.O .	ASP	GLU	
												370					



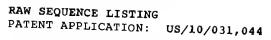
PATENT APPLICATION: US/10/031,044

DATE: 02/14/2002 TIME: 09:03:29

Input Set : A:\PTO.AMC.txt

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126 tat get eta aaa gaa tat gge gte atg egt gtt agg aac gte aaa gaa	1323
T TO THE TO SEE THE SECOND TO THE TOTAL TO	1323
200 206	
130 dge gee det cat dae tat acc cta aca can cat	1071
WED MED THE LIFE ATO GILL LAN THE TON COM Terr IN 1	1371
333 400	
134 gga caa ggg aat acg gag aga acg gtg tgg	
135 Gly Gln Gly Asp Thr Gly Arg The Vel Try can tac cac ttt cgg acc	1419
135 Gly Gln Gly Asn Thr Glu Arg Thr Val Trp Gln Tyr His Phe Arg Thr	
138 tgg ccg gac cac ggc gtg ccc agc gac cct ggg ggc gtg ctg gac ttc	1467
140 A25 A25 A25 ASP Pro Gly Gly Val Leu Asp Phe	
430	
142 ctg gag gag gtg cac cat aag cag gag agc atc atg gat gca ggg ccg	1515
van turo mio myo talii tan tan mot non na	1010
140 gtc gtg gtg cac tgc agt gct gga att ggg gar	1560
	1563
150 gtg att gat att ctt att gag atg atg atg	
151 Val Ile Asp Ile Leu Ile Asp Ile Ile Arg Glu Lys Gly Val Asp Cys	1611
152 475 475 Lys Gly Val Asp Cys	
#154 gat att gac gtt ccc aaa acc atc cag gtg cgg tct cag agg tca	1659
156 The last tio by sint lie Gin Met Val Arg Ser Gln Arg Ser	
400	
158 ggg atg gtc cag aca gaa gca cag tac cga ttt atc tat atg gcg gtc	1707
III of the state o	2707
505 510 515	
162 cag cat tat att gaa aca cta cag cgc agg att gaa gaa gag cag aaa	1755
The same and the contract of t	1755
1100 agc aag agg aaa ggg cac gaa tat aca aat att aca	
167 Ser Lys Arg Lys Gly His Glu Tyr Thr Asn Ile Lys Tyr Ser Leu Ala	1803
170 gac dag acg agt gga ggt cag acg act sta	
170 gac cag acg agt gga gat cag agc cct ctc ccg cct tgt act cca acg	1851
171 Asp Gln Thr Ser Gly Asp Gln Ser Pro Leu Pro Pro Cys Thr Pro Thr	
777 560	
174 cca ccc tgt gca gaa atg aga gac agt gct aga gtc tat gaa aac	1899
176 F70 STU MEL AIG GIU ASP SET ALA ARG VAL TYR Glu Asn	
178 gtg ggc ctg atg caa cag cag aaa agt ttc aga tga gaaaacctgc	1945
- The dry hed Met Gin Gin Lys Ser Phe Arg	1347
180 585 590	
182 caaaacttca gcacagaaat agatgtggac tttcaccctc tccctaaaaa gatcaagaac	2005
	2005
	2065
JL 10. Z	2121
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192 <213> ORGANISM: Artificial Sequence	
arcticial Sequence	





DATE: 02/14/2002 TIME: 09:03:29

Input Set : A:\PTO.AMC.txt

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213 <210> SEQ ID NO: 4 214 <211> LENGTH: 31	24
214 (211) LENGTH: 31 _{1.2} 215 <212> TYPE: DNA	
216 <212> TIPE: DNA	
216 <213> ORGANISM: Artificial Sequence 218 <220> FEATURE:	
210 \220\ FEATURE:	
219 <223> OTHER INFORMATION: PCR Probe 221 <400> SEQUENCE: 4	
222 Ctatcaccca caterage	
= 222 ctgtcaccca catcaagatt cagaacactg g	31
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* 228 <213> OPCANTON, A-++C++	
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DATE: 02/14/2002 TIME: 09:03:29

Input Set : A:\PTO.AMC.txt

RAW SEQUENCE LISTING

Output Set: N:\CRF3\02142002\J031044.raw

PATENT APPLICATION: US/10/031,044

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291 <223> OTHER INFORMATION: Antisense Oligonucleotide 293 <400> SEQUENCE: 10 294 aaaccatctc cgcgatgtca 297 <210> SEQ ID NO: 11 298 <211> LENGTH: 20 299 <212> TYPE: DNA 300 <213> ORGANISM: Artificial Sequence 302 <220> FEATURE:	20
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VERIFICATION SUMMARY



DATE: 02/14/2002 TIME: 09:03:30

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02142002\J031044.raw

PATENT APPLICATION: US/10/031,044

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date